

PECHUGIN, D.A., inzh.; SINKIN, P.A., inzh. (Novosibirsk)

Repair of bridges by track machinery stations. Put' i put. khoz.
no. 4:14 Ap '58. (MIRA 11:4)

(Railroad bridges--Maintenance and repair)

DANOVSKIY, Leonid Mechislavovich, dots., kand. tekhn. nauk; GROMOV, L.K., kand. tekhn. nauk, dotsent; ANTONOV, Yu.A., dots.; MIL'CHAKOV, K.V., inzh.; KOTYUKOV, I.A., kand. tekhn. nauk, dotsent; CHASHCHIN, N.P., inzh.; MIROSHIN, P.V., dotsent; INOZEMTSEV, A.A., inzh.; PE-CHUGIN, D.A., dotsent; KOVALEV, N.F., inzh.; SINKIN, P.A., inzh.; POTOTSKIY, G.I., inzh., red.; USENKO, L.A., tekhn. red.

[Track work in sections with heavy freight traffic; from the experience of the Omsk and Tomsk Railroads] Putevye raboty na gruzonapriazhennykh uchastkakh; iz opyta Omskoi i Tomskoi dorog. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va puti soobshcheniya, 1961. 102 p. (MIRA 14:7)

(Railroads—Maintenance and repair) (Railroads—Freight)

SINKIN, V.A.

Introducing automatic shakeout of molds at the Lipetsk Metallurgical
Plant. Biul. tekhn.-ekon.inform.Gos. nauch.-issl.inst. nauch. i tekhn.
inform. 18 no.6:49-50 Je '65. (MIRA 18:7)

L 1826-66 EWT(d)/EEG(k)-2
ACCESSION NR: AP4041494

FO/0053/64/000/005/0249/0252
621.314.6

AUTHOR: Sinkiewicz, Tadeusz⁴⁴ (Sinkevich, T.)

TITLE: Methods of measuring the parameters of semiconductor diodes which determine the margins of correct operation of computer systems 9M, 44

SOURCE: Przegląd elektroniki, no. 5, 1964, 249-252

TOPIC TAGS: diode, computer, computer system, semiconductor diode, measurement instrument, mathematical machine

ABSTRACT: The article reports on two new types of diodes for computers, the DOG-59 and the DOG-60, which were designed and developed in collaboration with Z.P. "Tewa." [not identified in text]. The original parameters on which the margins of correct operation of FOD [not identified in text] system depend were determined in the course of designing the magnetic-diode systems of the original FOD systems for the ZAM-3M computer. One of the prerequisites in the design of these original FOD systems was that diodes of Polish production be used. Seventeen Polish-made and foreign diodes were tested by various methods and it was determined that after necessary improvements of production technology, the Polish group DOP diodes could be used. With a view to using measurement equipment available in

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ACCESSION NR: AP4041494

Poland for the initial selection of the diodes, the correlation coefficients and the coefficients of simple regression between the static and dynamic parameters of the diodes were calculated with the aid of the ZAM-2 computer. The final selection of the diodes was carried out with the aid of the measurement instrument MEP-1 and MED-2 developed at the Institute of Mathematical Machines of the Polish AS. The preliminary test results of all the complexes built with the initial FOD systems indicate that the selection of the diodes with the instruments and equipment mentioned ensures uniformity of the initial systems and of the desired margins of correct operation of complexes of computers. Orig. art. has: 1 table, 2 formulas, and 3 figures.

ASSOCIATION: Instytut Maszyn Matematycznych PAN (Institute of Mathematical Machines, Polish AS)

SUBMITTED: 00

ENCL: 00

SUB CODE: EC, DP

NO REF SOV: 000

OTHER: 000

Card 2/2

L 7007-66

ACC NR: AP5026804

SOURCE CODE: UR/0286/65/000/017/0086/0086

INVENTOR: Kryukov, P. A.; Vol'skaya, A. G.; Sinkin, V. I.

ORG: none

54
B
9M

TITLE: A device for measuring the electrical conductivity of solutions at ultrahigh pressures. Class 42, No. 174421 [announced by Institute of Inorganic Chemistry, Siberian Department AN SSSR (Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 86

TOPIC TAGS: electric conductivity, electric measuring instrument, high pressure

ABSTRACT: This Inventor's Certificate introduces a device for measuring the electrical conductivity of solutions at ultrahigh pressures. The instrument is a cell with two electrodes and a device for balancing the pressure inside and outside the cell. Accuracy is improved and measurement limits are increased by pressing the electrodes to the ends of the cell (which may be made of quartz) and making an opening in one of the electrodes to connect the interior of the cell with an auxiliary cavity with a diaphragm for pressure balance.

Card 1/3

UDC: 543.257.5

L 7007-66

ACC NR: AP5026804

SUB CODE: EM,EE/ SUBM DATE: 15Aug64/ ORIG REF: 000/ OTH REF: 000.

Card 2/3

L 7007-66

ACC NR: AP5026804

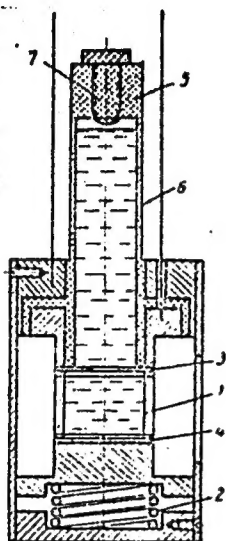


Fig. 1. 1 - quartz tube; 2 - spring; 3 and 4 - electrodes; 5 - combination component for pressure transmission; 6 - thin-walled cylinder which serves as a diaphragm; 7 - opening for filling the cell.

nw
Card 3/3

SINKINA, N.V.

FORSETER, Kh. F.; SINKINA, N.V.

Effect of sulfenamides on inflammatory reaction caused
by *Shigella dysenteriae*. Zh. mikrobiol., Moskva No.1:32-35
Jan 1954. (OLML 25:5)

L. Of the Department of Experimental Chemotherapy (Head --
Prof. Kh. Kh. Planel'yes), Institute of Epidemiology and
Microbiology imeni Honorable Academician N.F. Gamaleya
(Director -- Prof. V.D. Timakov), Academy of Medical
Sciences USSR.

SINKMAJER, F.

"Planned Preparation for Turning Out Products in the Machine Industry." p. 164. Praha.
Vol. 2, no. 4, 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

SINKMAJER, J.

Principal tasks of technicians in organizing management according to a budget. p. 112.
(Textil, Praha, Vol. 9, no. 4, Apr. 1954)

SO: Monthly list of East European Accessions (EEAL), LC Vol 4, No. 6, June 1955, Uncl

SINKMAJER, J.

Reduction of prices obliges us to economize. p. 131. (Textil, Praha, Vol. 9, no. 5, May, 1954)

SO: Monthly list of East European Accessions (EEAL), LC Vol4, No. 6, June 1955, Uncl

Sinko, A.I.

DOLOTOV, N.P.; MIKHKOTA, V.A.; SIN'KO, A.I.; BABOKIN, otvetstvennyy red.;
KOROVENKOVA, Z.A., tekhn. red.

[Handbook for workers and minor grade inspectors in mine transportation in the Moscow Basin] Pamiatka dlia rabochikh i mladshego nadzora uchastka vnutrishakhtnogo transporta Podmoskovnogo basseina. Moskva, Ugletekhizdat, 1953. 22 p. (MIRA 11:7)
(Moscow Basin--Mine haulage)

SINKO, Jozsef, okleveles gepeszmernok

Designing and selecting automatic feeding-discharging
installations for machine tools. Gep 16 no. 2: 50-56
F '64.

DEGRELL, Istvan, dr.; SINKO, Otto, dr.

Treatment of phlebectasies of the lower extremity under
phlebographic control. Magy. sebeszet 7 no.3:175-184 June 54.

1. A Pecsí Orvostudományi Egyetem II. sz. Sebészeti Klinika-
jának közleménye. Igazgató: Kudász József dr. egyet. tanár.

(ANGIOGRAPHY

phlebography in varicose veins, diag. & ther. value)

(VARICOSE VEINS

phlebography, diag. & ther. value)

SINKO, OTTO

DEGRELL, Istvan, dr.; KISS, Tibor, dr.; SINKO, Otto, dr.

Experience in medullectomy. Orv. hetil. 95 no.25-26:688-692
24 June 54.

1. A Pécsi Orvostudományi Egyetem II. sz. Sebészeti Klinikájának
(igazgató: Kudasz József dr. egyet. tanár) közleménye

(RAYNAUD'S DISEASE, surgery
adrenal medullectomy)

(THROMBOANGITIS OBLITERANS, surgery
adrenal medullectomy)

(ADRENAL MEDULLA, surgery
medullectomy in Raynaud's dis. & thromboangitis
obliterans)

DEGRELL, Istvan, dr.; SINKO, Otto, dr.; KUDASZ, Jozsef, dr.; KISS, Tibor, dr.;
MADAY, Peter, dr.

Significance of arteriography in peripheral vascular diseases.
Magy. radiol. 7 no.1:35-40 Jan 55.

1. A Pecsí Orvostudományi Egyetem II. sz Sebészeti klinikája
(igazgató: Kudasz, József dr. egyetemi tanár) közleménye.
(VASCULAR DISEASES, PERIPHERAL,
arteriography in)
(ANGIOGRAPHY, in various diseases,
vasc. dis., peripheral)

CZIRNER, Jozsef, dr.; SINKO, Otto, dr.; CZITA, Katalin, dr.

Staphylococcal pneumonia. Orv.hetil. 101 no.51:1811-1815 18 D'60.

1. Pecs Orvostudományi Egyetem, II. sz. Belklinika.
(STAPHYLOCOCCAL INFECTIONS case reports)
(PNEUMONIA microbiol)

1961-1962

1961-1962. Dr. WILHELM, L., Dr. KARL, L., Dr. Second
Clinic of Internal Medicine (II) Dr. BELGYORYASATI KLANI-
KA (Director: KARL, L., Dr. Professor), and Second Clinic
of Surgery (II) Dr. BELGYORYASATI KLANIKA (Director: KARL, L.,
Dr. Professor), X-ray Laboratory (X-ray Laboratory
Clinic, Sec. 1).

"X-ray diagnosis of the primary malignant tumors of the
small intestine."

1961-1962. Magyar Radiologia, Vol 14, No 6, Dec 12, pp 334-
341.

Abstract: (Authors' English summary) In the diagnosis of
cancer in the small intestine considerable progress has
been made in improvements in X-ray apparatus, serial pic-
tures, screen viewing, intensifiers, fractional dosage of
contrast medium and pharmaco-radiographic examinations.
Errors in diagnosis, lack of shadow due to tumors,
rigidity and in characteristic movements of the intestine are
recognized. Of 21 references, 9 are Hungarian, 12 western.
121

SHUBNIKOV, A.; SIN'KO, V.

Research Institute for the Organization of Administration
and Norms attached to the National Economic Council of the
U.S.S.R. Vop. ekon. no.2:154-156 F '64. (MIRA 17:3)

SIN'KO, V. I.

Miners' competition in people's democracies. Mast. ugl. 7 no. 6:25-
26 Je '58. (MIRA 11:7)
(Europe, Eastern--Coal mines and mining)

SINKO, V.I.

TECHNOLOGY

Periodicals: MINNO DELO. Vol. 13, No. 5 Sept./Oct. 1958

SINKO, V. Some questions connected with the development of the coal industry
in the European People's Democratic Countries. p. 82.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959,
Unclass.

SIN'KO, V.I.

Development of coal mining and combustion in European people's
democracies. Ugol' 33 no.2:43-47 F '58. (MIRA 11:2)
(Europe, Eastern--Coal mines and mining)

SIN'KO, V.I., kand. ekonom. nauk; MASHKOVTSSEV, I.L., kand. tekhn. nauk;
KHODOS, G.I., inzh.-ekonomist

Replies to the article by M.A. Shvarts "Faults in planning
underground operations." Ugol' 38 no.6:52-54 Je '63.
(MIRA 16:8)

1. Nauchno-issledovatel'skiy institut planirovaniya i normativov
(for Sin'ko, Mashkovtsev). 2. Donetskii nauchno-issledovatel'skiy
ugol'nyy institut (for Khodos).

(Coal mines and mining--Management)

(Shvarts, M.A.)

ACC NR: AT7002858 (N) SOURCE CODE: UR/3239/66/000/003/0105/0107

AUTHOR: Sin'ko. Yu.P.

ORG: none

TITLE: Application of elastic packing in a stern-tube shaft-bearing assembly

SOURCE: Nikolayev. Korablestroitel'nyy institut. Sudostroyeniye i morskoye sooruzheniya, no. 3, 1966. Sudovyye energeticheskiye ustanovki (Ship power equipment), 105-107

TOPIC TAGS: marine engineering, roller bearing, rotating seal, sealing device, *PACKING MATERIAL*, *SHAFT*

ABSTRACT:

A new method of sealing a stern-tube shaft-bearing assembly by the use of a circular elastic cylinder is described. Providing a reliable seal and fully sealed stern tube, this method makes it possible to use rolling bearings instead of sliding bearings (see Fig. 1). Spherical rolling bearings 5, adjusted to the shaft 1 by means of conical bushings and located in bearing sockets 3, are movable during the axial displacement of the stern-tube shaft. Sockets 7 containing circular elastic cylinders 8 are retained by caps 9 close to the

Card 1/3

UDC: none

ACC NR: AT7002858

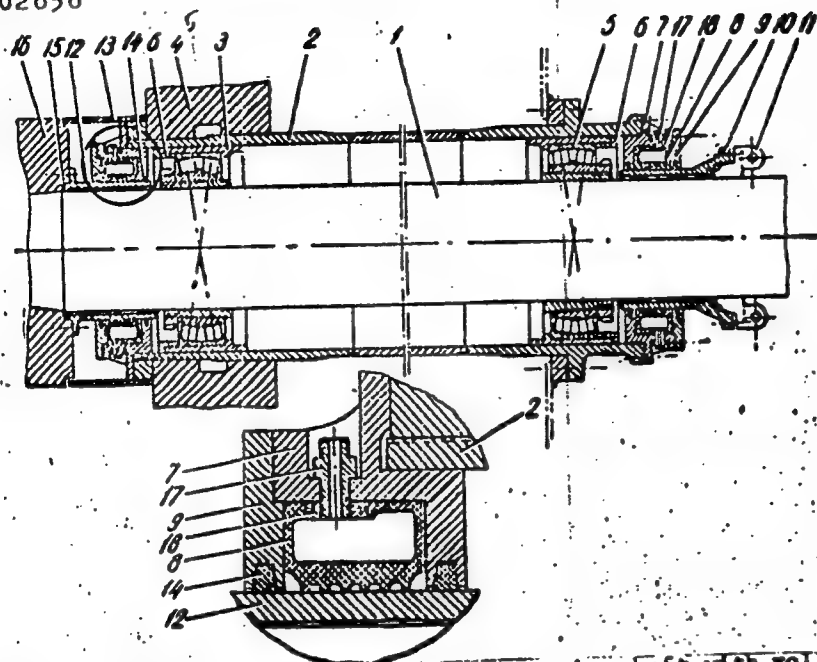


Fig. 1. Bearing arrangement of a stern-tube shaft with rolling bearings and packing involving the use of a circular elastic cylinder

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ACC NR: AT7002058

1 - Propeller shaft; 2 - stern tube; 3 - bearing socket; 4 - stern post; 5 - rolling bearing; 6 - thrust ring; 7 - packing socket; 8 - circular elastic cylinder; 9 - cap; 10 - forward packing bushing; 11 - centering ring; 12 - stern packing bushing; 13 - packing assembly cover; 14 - packing; 15 - rubber ring gasket; 16 - propeller boss; 17 - tube; 18 - bushing.

ends of the stern tube 2. A gaseous or liquid working substance is supplied under pressure through the tubes 17. The pressure level depends on the elasticity of the circular cylinder and on the operating conditions. The bearings are lubricated with the oil in the stern tube hollow. Checking cocks and a signaling system are provided for controlling the sealing condition. The use of rolling bearings and elastic packings decreases the production costs of the stern-tube arrangement by 30—40%, increases the efficiency and operating reliability of the power plant, and increases the period before intermediate overhauling is required. [CE]

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 5114

Card 3/3

RUBTSOV, P.A.; SIN'KOV, I.A.

Experience. Zhivotnovodstvo 21 no.10:8-13 0 '59.
(MIRA 13:2)

1. Rukovoditel' laboratorii elektromekhanizatsii zhivotnovodstva Zaporozhskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta elektrifikatsii sel'skogo khozyaystva (VIESKh) (for Rubtsov). 2. Starshiy mekhanik laboratorii elektromekhanizatsii zhivotnovodstva Zaporozhskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta elektrifikatsii sel'skogo khozyaystva (VIESKh) (for Sin'kov).
(Zaporozh'ye Province--Dairy barns)

SIN'KOV, I.A.

Longitudinal tandem-type milking arrangement. Sbor. nauch.-
tekh. inform. po elektr. sel'khoz. no.16/17:20-23 '64.
(MIRA 18:11)

SIN'KOV, M.V., inzh.

Automation of the calculation of starts and stoppages of units
in an electric power system. Energ. i elektrotekh. prom. no.4:
37 0-0 '63. (MIRA 17:10)

SAFONOV, I.V., inzh.; SIN'KOV, M.V., inzh.

Reliability of the electrical machines of automatic control
systems, Energ. i elektrotekh. prom. no.3:21-23 J1-S '65.
(MIRA 18:9)


NAGORNYI, L.Ya., kand.tekhn.nauk; SIN'KOV, M.V., inzh.

Computer system for determining the optimum order of operation of
units in an electric power system. Energ. i elektrotekh. prom.
no.4:9-12 O-D '64. (MIRA 18:3)


SOV/58-59-5-11874

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 5, p 281 (USSR)

AUTHOR: Sin'kov, N.A.

TITLE: Research on a Method of Selecting Rational Line Pairs by Measuring
Line Intensity From the Height of the Spectrum 

PERIODICAL: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, 1958, Nr 36, pp 309-318

ABSTRACT: To select homologous lines the author suggests that the spectrum of the sample be photographed under conditions when the arc between the electrodes is sharply focused along the entire slit of the spectrograph, and that $\lg I_1/I_2$ be measured at various points of the interelectrode gap for different line pairs and various electrodes. 

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8(2)

SOV/32-25-3-46/62

AUTHOR: Sin'kov, N. A.

TITLE: An Arc Attachment to the Spark Generator IG-2 (Dugovaya pristavka k iskrovomu generatoru IG-2)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 3, p 366 (USSR)

ABSTRACT: An attachment was designed which permits the use of the spark generator IG-2 also for the arc excitation of spectra. They way in which the attachment is connected with the circuit of the spark generator is represented schematically (Fig). The arc attachment is basically a panel of dielectrics on which a rheostat (30-40 ohm), an ammeter (10 amperes), a blocking condenser of the type KBG (1 microfarad), a plug socket for interrupting the arc circuit, and two terminals are mounted. The reproducibility of the intensity of the arc spectrum between two copper electrodes with an electrode distance of 2 mm, a current intensity of 6 amperes, an inductivity $L = 0$, a capacity of 0.01 microfarad, and a distance between the discharge discs of the spark generator of 2 mm was determined by means of the lines Cu II 2489 and Cu I 2492 Å. The mean square error was $\pm 3\%$, while a value of $\pm 5-6\%$, for instance, was found with the generator PS-39.

Card 1/2

An Arc Attachment to the Spark Generator IG-2

SOV/32-25-3-46/62

There is 1 figure.

Card 2/2

ALIKIN, R.I.; TRUSHKOV, A.M.; SIN'KOV, N.A.

Study of the magnetic system of the DFE-400 traction motor. Trudy
TEIIZHT 35:69-76 '62. (MIRA 16:8)
(Electric railway motors) (Magnetic circuits)

ALIKIN, R.I.; DUBOV, V.V.; KOMAROVSKIY, M.A.; KUPRIYANOV, Yu.V.;
SIN'KOV, N.A.

NB-412K traction motor with a compensating winding. Sbor. nauch.
trud. Elnii 3:56-67 '63. (MIRA 17:4)

| 1ST AND 2ND ORDERS | | | | | | | | | | PROCESSES AND PROPERTIES INDEX | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| <p>4684. ECONOMIC DISTRIBUTION OF ACTIVE LOAD BETWEEN POWER STATIONS SUPPLY SYSTEM. Sinkov. V. (Elektrichestvo, May 1947, No.5, 24-29).</p> <p>A theoretical study is made of a project for a simple electrical device for calculating the distribution of the active load between the power stations of a supply system. The field of application and possible discrepancy are examined.</p> | | | | | | | | | | | | | | | | | | | |
| METALLURGICAL LITERATURE CLASSIFICATION | | | | | | | | | | ELECTRICITY | | | | | | | | | |
| <p>1. ASH-SLA</p> <p>2. FROM STEELING</p> <p>3. FROM STEELING</p> <p>4. FROM STEELING</p> <p>5. FROM STEELING</p> <p>6. FROM STEELING</p> <p>7. FROM STEELING</p> <p>8. FROM STEELING</p> <p>9. FROM STEELING</p> <p>10. FROM STEELING</p> | | | | | | | | | | <p>11. FROM STEELING</p> <p>12. FROM STEELING</p> <p>13. FROM STEELING</p> <p>14. FROM STEELING</p> <p>15. FROM STEELING</p> <p>16. FROM STEELING</p> <p>17. FROM STEELING</p> <p>18. FROM STEELING</p> <p>19. FROM STEELING</p> <p>20. FROM STEELING</p> | | | | | | | | | |

3120. ECONOMIC BASES OF LOAD DISTRIBUTION BETWEEN POWER STATIONS. Sinkov, V. M. (Elektrichestvo, Dec. 1947, No. 12, 80-85). A study is made of the factors governing economic load distribution, considering availability and cost of fuel, etc. A method is presented for calculating the fuel costs for a given system of load distribution.

E.R.A.

SIN'KOV, V. M.

"Use of Rectifier-Inverter Installations in Power Systems," reported in the article
"First All-Union Scientific and Technical Session on Mercury-Arc Rectifiers," Elektrichestvo,
No. 11, 1949.

Candidate of Technical Sci. of UPI

Abstract W-9395, 10 Apr 1950

SIN'KOV, V. M.

USSR/Electricity - Inverters

Apr 52

"Extinguishing of the Excitation Arc in Tubes of Rectifier-Inverter Installations," I. A. Krichenova, V. Ye. Polyakov, Docent V. M. Sin'kov, Candidates Tech Sci

"Elektrichestvo" No 4, pp 42-45

Discusses the effect of circuit inductance and capacitance and relationships of the control angles of the tubes on the stability of the excitation arc in the tubes of a rectifier-inverter installation having a rectified voltage of 12 kv. Submitted 10 Aug 51.

PA 228T53

SIN'KOV, V. M.

USSR/Electricity - Rectifiers
Inverters

Nov 52

"Characteristics of Converter Installations," Cand. Tech Sci A. V. Bayev, I. A. Krichenova, V. Ye. Polyakov, V. M. Sin'kov, and Engr V. Yu. Srodnykh, Ural Polytech Inst imeni Kirov

"Elektrichestvo" No 11, pp 51-52

Cites procedure for constructing characteristic curves of converter (rectifier and inverter) installations using regulation angles alpha and beta as coordinates. Most important relationships from point of view of operation are obtained for case of infinite inductance in rectified current circuit. Submitted 10 Apr 52

PA 240166

FA 242T27

USSR/Electricity - Mercury-Arc Rectifiers Dec 52

"Rectified Voltage in the Case of a Two-Terminal Short-Circuit in the Lartionov Power Supply Circuit," Docent V. M. Sin'kov, Cand Tech Sci, and Eng'r A. V. Yemel'yanov, Kuybyshev Industrial Institute Kuybyshev

"Elektrichestvo" No 12, pp 45-46

Faults in ac line supplying 3-phase Lartionov bridge circuit cause a variation of rectified voltage and may lead to loss of control, which is especially dangerous when rectifier is operating as an inverter

242T27

Cites results of analysis of dependence of rectified voltage in 3-phase bridge circuit on unbalance coeff in the case of 2-terminal short-circuits in supply circuit connected through phase-regulator. Commutation angle is not taken into account. Submitted 22 Feb 52.

SIN'KOV, V. M.

242T27

CHURCH, W. V.; W. V., Ch.; CHURCH, W. A., Ch.

Electric Circuits

Protection schemes for alternative operating current. Elek. sta. 23 no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

SHKOV, V.M.

621.315.09 : 621.3.012.8 : 621.1.017
1414. Analysis of the accuracy of the determination
of the losses in a branched network by the method of
the equivalent resistance. V. M. SHKOV AND B. V.
PEREPELOV. *Elektricheskaya energiya* 21-6. (in
Russian).

Electrical Engineering Abst.
Vol. 57 No. 676
Apr. 1954
Electrical Engineering

The method of equivalent resistance consists in determining the equivalent resistance of the system considered under certain given conditions, for example, that the power losses remain constant for a certain instant, or for given initial conditions. In 3-phase systems the equivalent resistance is found for a "reduced phase" and is based on the r.m.s. value of the current of the input section of the system. Although the equivalent resistance varies with the load, it is sufficient for practical calculations of the power losses based on average r.m.s. values of the current over a month or another period chosen. It is shown that the errors are of the order of a few per cent. Error curves in relation to load variations, ratios of the section resistances ("relative resistances"), etc., enable the practicability of the method to be established for any given case. The use of the ratios of r.m.s. and arithmetical mean values of the currents determined for given load diagrams facilitates the application of the method.

B. F. KRAUS

GUMIN, I.Ya. [author]; SIN'KOV, V.M., kandidat tekhnicheskikh nauk, dotsent;
PRESSMAN, S.M., inzhener [reviewers].

"Secondary schemes of electric power plants." I.IA.Gumin. Reviewed by V.M.
Sin'kov, S.M.Pressman. Elektrichestvo no.10:94-95 0 '53. (MLBA 6:10)
(Electric power plants) (Gumin, I.IA.)

Sin'kov, V. M.

AID P - 1237

Subject : USSR/Electricity
Card 1/1 Pub. 27 - 32/34
Author : Sin'kov, V. M., Kand. of Tech. Sci., Dotsent
Title : M. F. Poyarkov. Rural Electric Power Stations and Substations. (Series "Textbooks and school equipment for agricultural technical schools) 398 pp. Sel'khozgiz, 1954 (Bibliography)
Periodical : Elektrichestvo, 12, 87, D 1954
Abstract : The reviewer says that the book answers the requirements of the decision of the Communist Party and of the Government as concerns the program of improvement in agriculture. The author of the book has a long educational experience. However, the book contains many mistakes, which reduce its utility. In particular the role of Russian and Soviet scientists is not sufficiently emphasized.
Institution : Ukrainian Agricultural Academy
Submitted : No date

Sin'kov, V. M.

AID P - 2071

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 13/29

Authors : Gol'dshteyn, G. M., Eng., and Sin'kov, V. M., Kand. of
Tech. Sci., - Kuybyshev

Title : Reducing the cost of substations and modernization of
their construction. (Discussion of an article by
A. B. Krikunchik, this journal, 1954, No.2)

Periodical: Elek. sta., 4, 43-44, Ap 1955

Abstract : The authors criticize this article and make certain
suggestions on the subject, i.e. the possibility of a
further enlargement of the site, the mass production of
open-door 6-10 kv switch gear, greater use of mobile
reserve transformers, etc. The authors recommend a
detailed revision of all problems connected with the
building and installation of substations.

Institution: None

Submitted : No date

SOV/112-57-6-12151

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 6, p 63 (USSR)

AUTHOR: Sin'kov, V. M.

TITLE: Application of Rectifier-and-Inverter Stations in Electric Systems
(Primeneniye vypryamitel'no-invertornykh ustanovok v elektricheskikh sistemakh)

PERIODICAL: Sb. nauch. tr. Kuybyshevsk. industr. in-t, 1956, Nr 6, Vol 1,
pp 107-114

ABSTRACT: Reasons for using DC plants to interconnect the Soviet power systems are substantiated; such plants ought to find wide usage in the current project of pooling individual power systems into a united power system.

M.A.Kh.

Card 1/1

SIN'KOV, V.M., kandidat tekhnicheskikh nauk.

Approximate method for determining the expediency of isolating
part of single-transformer substations in industrial establishments.
Prom.energ.11 no.12:6-9 D '56. (MIRA 10:1)
(Electric substations)

AUTHORS: Bayev, A. V., Krichenova, I. V., 105-58-6-30/33
Polyakov, V. Ye., Sin'kov, V. M., Srodnykh, V. Yu.

TITLE: On the Occasion of the 10-th Anniversary of Putting Into
Operation of the Test D.C. Line in the Town of Sverdlovsk
(K 10-letiyu so dnya puka eksperimental'noy linii postoyan-
nogo toka v g. Sverdlovske)

PERIODICAL: Elektrichestvo, 1958, Nr 6, pp. 93-93 (USSR)

ABSTRACT: On February 10, 1958 10 years had passed since the putting into
operation of the first small experimental ~~da~~ line in the USSR. It
was constructed by the Ural Polytechnical Institute imeni S.M.
Kirov and the "Uralelektroapparat" factory. Its power was 180
kW at 12 kV. The a.c. voltage at the rectifier and inverter
substations was 6 kV. A number of scientific research works
were performed in this test line; in 1950 the line was demoun-
ted in connection with the new construction of the institute.

1. Transmission lines--USSR 2. Transmission lines--Equipment
3. Transmission lines--Performance

Card 1/1

8(6), 14(6)
AUTHORS: Bayev, A.V., Candidate of Technical Sciences, Docent,
Krichenova, I.A., Polyakov, V.Ye., Sin'kov, V.M.,
Srodnykh, V.Yu., Engineer

TITLE: The Experimental D.C. Power Line from UPI to UEA

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika,
1958, Nr 10, pp 144-145 (USSR)

ABSTRACT: On February 10, 1948, the construction of the first
experimental d.c. power line in the USSR was completed,
connecting the UPI - Ural'skiy politekhnicheskii in-
stitut imeni S.M. Kirova (Ural Polytechnic Institute
imeni S.M. Kirov) with UEA - "Uralelektroapparat"
plant in Sverdlovsk. The preparations for building
this d.c. line began in 1947 by an order signed by
the directors of UPI and UEA. Planning, constructing,
operating and research were carried out jointly by
UPI and UEA. This power line may serve as an example
for the cooperation between an industrial installation
and a vuz. All planning was done by the authors of
this article at Kafedra elektricheskikh stantsiy, setey

Card 1/5

SOV/143-58-10-18/24

The Experimental D.C. Power Line from UPI to UEA

i sistem UPI (Chair of Electric Power Plants, Networks and Distribution Systems of UPI) with consultation of leading employees of the mercury rectifier department of the UEA, L.M. Klyachkin, V.K. Krapivin, I.N. Faleyev. The basic and auxiliary equipment was furnished by UEA, while UPI provided materials for the line. The construction of the line was performed by the organization "Uralelektromontazh", L.M. Lipovetskiy and S.V. Khlynov, with participation of the Institute. The d.c. power line was prepared for operation by UIP (Khlebnikov, I.Ya., Senior Laboratory Assistant, and others) with participation of UEA representatives. The rectifier substation was set up at the 6 kv substation supplying the Vtuzgorodok (Institute area). For installing the inventors, free chambers in a substation feeding one of the training buildings were used, of which a part was occupied by UEA. The rectified voltage was 12 kv. The equipment of the rectifier and inverter stations was designed for transmitting 180 kw. The length of the overground line was

Card 2/5

SOV/143-58-10-18/24

The Experimental D.C. Power Line from UPI to UEA

somewhat shorter than 500 m. In a special laboratory preliminary studies were conducted with the rectifier and inverter equipment, emphasizing safety measures, since a number of students did not yet have the required experience. The equipment was installed upon completion of the construction work by a group of 12-15 senior students. The experimental operation was also performed by students, among them B.A. Astakhov, P.N. Zakharov and his brother, Kokin, Teploukhov and others. The Ekspluatatsionno-tekhnicheskoye upravleniye UPI (Operational-Technological Administration of UPI), S.A. Yakimov, N.A. Morozov, M.A. Bobich and others, furnished great assistance for this project. The first period of operation of the d.c. power line was characterized by short duration of stable power transmission. After two to four hours various malfunctions of the six-anode mercury rectifiers occurred, etc. Some research work was conducted on a contract basis with the "Uralelektroapparat" plant and the Institut postoyannogo toka MES SSSR (Institute

Card 3/5

SOV/143-58-10-18/24

The Experimental D.C. Power Line from UPI to UEA

of Direct Current of MES USSR) dealing with the influence of irregular operating conditions in the internal feed network on the functioning of the inverters. It was also necessary to conduct an investigation of radio interference caused during the operation of the d.c. line. Further failures of rectifiers and inverters were investigated and new circuit arrangements for inverter substations were developed. Some of the students performed their diplomas or dissertations on subjects connected with the operation of this line. The d.c. power line was dismantled in 1950 in connection with the construction of new buildings at UPI. The investigations conducted on this experimental line were compiled in reports delivered at the first All-Union conference of polytechnic institutes in Leningrad in 1948. Further, reports on these subjects were read at the conferences organized by the Energicheskii institut Akademii nauk SSSR (Institute of Power Engineering of the USSR Academy of Sciences)

Card 4/5

SIN'KOV, V.M., kand. tekhn. nauk.

Determining the load center relative to selection of the site of
power plants. Elek. sta. 29 no.2:92-93 P '58. (MIRA 11:3)
(Electric power plants--Load)

ZAIIKA, A.A.; SIN'KOV, V.M.

Conference on economics of heat and electric power production.
Elek.sta. 29 no.8:94-96 Ag '58. (MIRA 11:11)
(Power engineering—Congresses)

Sin'kov, V.M.

00V/5778

NAME I NAME EXPLANATION

Shirshov, G.D. Primeneniye planovaya konstanty

Automatizatsiya i priborostroyeniye: sbornik nauchnykh trudov, vyp. 1.
(Automation and Instrument Making: Collected Scientific Works, No. 1)
Mosc., Gostekhnizdat MASH, 1959. 107 p. 5,000 copies printed.

Ed.: V. Demikhov, Tech. Ed.: E. Gusev; Editorial Board: P.M. Mel'nik
(Chief Ed.), N.Y. Zhurav, G.S. Kryukov, I.A. Orlov, (Resp. Ed.),
I.A. Shustov, and N.Y. Iarsh.

REMARKS: This collection of articles is intended for scientists and technical
workers and for students of schools of higher education specializing in
automation, telemechanics, and computing.

CONTENTS: The collection contains papers on the automation of metallurgical,
chemical and power engineering and on the development of new instruments,
telemechanical units, and a program control system for a machine tool.
A bibliography on automatic analysis of solutions containing 61 items;
42 Soviet, 14 English, 5 German, 4 French and 1 Polish is included. No person-
alities are mentioned.

AUTOMATION OF INDUSTRIAL PROCESSES

Korobko, M.I., A.D. Spiridchenko, V.M. Koshchuk, V.I. Kostikov,
I.I. Tyubko, V.M. Kryukov. Automatic System for Open-Search
Thermal Processes

9

Korobko, M.I., V.I. Kostikov. Open-Search Control System

13

Shustov, I.A., B.G. Mikryukov. Automatic Inspection and
Control of Blast Distribution in Open-Search Turbines

17

Korobko, M.I. New Indirect Method for the Automatic Analysis of
Multicomponent Solutions

22

Spirin, G.A., I.I. Kobus, V.Ye. Gitsko, V.M. Afanas'yev. Program
Control System of Turbine Lathe 1341 P

29

Spirin, G.A., and O.Y. Poritskiy. Shift Pickup Called "Magnetic
Steps"

35

AUTOMATION EQUIPMENT

Zabor, V.L. Comparison of Methods of Selecting Telemechanic
Frequency Codes

40

Shirshov, G.D. and V.I. Tyubko. Circuitry for Synchronous Reception
of Telemechanic Frequency Codes (Synchronous Generator-Filter)

44

Sin'kov, V.M., V.P. Kovalevskiy. Calculator "Kiren-2" for the
Automatic Distribution of Active Load in Power Systems

50

Sin'kov, V.M. and Poljansk, E.Yu. Basis for Selecting Criterion
With Regard to the Necessity of Registering Net Losses During
Distribution of Load Among Electric Power Stations.

55

Pechuk, V.I. and V.A. Lepiz. Electronic Level Controller

61

Vagner, I.Y., A.I. Kozmolskiy, L.P. Titarenko.
Concentration Meter for Potassium Salt Solutions

64

Tsvetich, V.S., K.M. Krolevets, Yu.M. Altayevskiy. Highly
Sensitive Germanium Photoresistor

69

Kozmolskiy, V.A. and B.I. Vasil'yev. Gold-Welded Germanium
Pulse Diode

71

ASYNCHRONOUS CONTROL

Shirshov, G.D. New Principle of Control Using High-Speed Nonlinear
Controllers for Industrial Processes With Considerable Lag

75

Gribovskiy, V.P. and Yu.I. Semyonov. Approximate Methods for
Selecting Optimum Adjustment of Discontinuous Control Systems

80

Lodiyer, B.I., and A.Y. Gerasimov. Selection of Control
Parameters for a Mercury-Pool Electrolytic Bath

87

SIN'KOV, V.M.; KOVALENKO, V.P.

The "Ekran-2" computer for economic distribution of active load in
electric power systems. Avtom. i prib. no.1:50-54 '59. (MIRA 13:10)
(Electronic analog computer)

SIN'KOV, V.M.; POL'KMAN, K.Yu.

Basis for selecting the criterion with regard to the necessity
of registering losses in networks during the distribution of load
among electric power stations. Avtom. i prib. no.1:55-60 '59.
(MIRA 13:10)

(Electric power distribution)

KARPOV, I.V., kand.tekhn.nauk dots.; SIN'KOV, V.M., kand.tekhn.nauk dots.

Textbook for institutions offering courses in the electrification
of agriculture ("Electric stations and substations" by S.A.Burgnev.
Reviewed by I.V.Karpov, V.M.Sin'kov). Izv.vys.ucheb.zav.; energ.
2 no.8:130-133 Ag '59. (MIRA 13:2)

1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk.
(Electricity in agriculture)
(Rural electrification)

SOV/105-59-5-11/29

8(6)
AUTHOR: Sin'kov, V. M., Docent, Candidate of Technical Sciences

TITLE: Real Load Distribution Between Power Stations at a Given Fuel Consumption (Raspredeleniye aktivnoy nagruzki mezhduelektrostantsiyami pri zadannom raskhode topliva)

PERIODICAL: Elektrichestvo, 1959, Nr 5, pp 49-53 (USSR)

ABSTRACT: The problem of load distribution at a given fuel consumption is solved here by replacing the real consumption characteristics of the power plant by approximate, idealized characteristics.- Formula (1) is indicated as approximation equation for the fuel consumption depending on the load. Formula (2) is given for the characteristic of the relative increase in fuel consumption, and formulas (3) are given for the consumption in a system of 2 power stations.- A coefficient α is introduced, and formula (7) and the simplified formula (10) are derived for it. To be able to use these two formulas in practice, the parameters in formula (1) must be properly selected. This is done most easily by leveling the characteristics of the relative increase in fuel consumption of the power plant (see Fig 1). Such leveling with sufficient accuracy can only be carried out in the load range -

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SOV/105-59-5-11/29

Real Load Distribution Between Power Stations at a Given Fuel Consumption

from the lowest to the highest. Therefore, formula (3) is transformed, and formula (15) is obtained for the conditional fuel consumption. This value is introduced into (10) or (7), and formula (16) is obtained for α instead of (7).- The correctness of the choice of the parameters m and n contained in formula (1) must be checked. For a correct choice is necessary that α is equal to 1, α being computed according to formula (16) for any load of the system. An example is calculated in the appendix. There are 4 figures, 3 tables, and 2 Soviet references.

ASSOCIATION: Institut avtomatiki Gosplana USSR (Institute of Automation of the State Planning Committee of the Council of Ministers of the Ukrainian SSR)

SUBMITTED: October 24, 1958

Card 2/2

AKUTIN, G.K. [Akutin, H.K.]; GAYEVENKO, Yu.O. [Haievenko, IU.O.];
 DYACHENKO, M.Ya.; ZHAROV, M.T.; IVANOV, S.K.; KARNYUSHIN,
 L.B.; KLODNITSKIY, I.I. [Klodayts'kiy, I.I.]; KOBUS, Yu.Y.
 [Kobus, IU.I.]; KOZLYU, V.Y. [Kozliuk, V.I.]; KORYTHNIKOV,
 V.P.; KOROBKO, M.I.; KOSTOGRIZOV, V.S. [Kostehryzov, V.S.];
 LADIYEV, R.Ya. [Ladiiev, R.Ia.]; MARTYNIK, S.F. [Martynink,
 H.H.]; MML'NIK, P.M.; kand.tekhn.nauk; NAVOL'NEV, S.Ya.
 [Navol'niev, S.IA.]; SIN'KOV, V.M.; SPINU, G.O. [Spynu, H.O.];
 SHOYKHET, L.A.; SHUMILOV, K.A.; KORSAK, Yu.Ye. [Korsak, IU.IB.],
 red.; LAGUTIN, I.A. [Lahutin, I.A.], tekhn.red.

[Automation in industry] Avtomatizatsiia v promyslovosti.
 Kyiv, Derzh.vyd-vo tekhn.lit-ry URSS, 1960. 288 p.

(MIRA 14:12)

(Automation) (Industrial management)

DERKACH, A.A., inzh. (Kiyev); SIN'KOV, V.M., kand.tekhn.nauk, dotsent
(Kiyev)

Effect of economic factors on the parameters of networks of
districts with distributed loads. Elektrichestvo no.5:15-
22 My '60. (MIRA 13:9)

(Electric power distribution)

SIN'KOV, V.M., kand.tekhn.nauk; ZASENKO, V.L., inzh.; KOVALENKO, V.P.,
inzh., POL'KMAN, K.Yu., inzh.

Computer for calculating the distribution of active loads with
a given fuel consumption. Elektrichestvo no.8:9-15 Ag '60.
(MIRA 13:8)

1. Institut avtomatiki Gosplana USSR.

(Electronic analog computers)
(Electric power distribution)
(Electric power plants)

SIN'KOV, V.M., kand.tekhn.nauk, dotsent

Possibilities of using computers in electric power systems.
Elektrichestvo no.10:7-12 0 '60. (MIRA 14:9)

1. Institut avtomatiki Gosplana USSR.
(Electric power distribution)
(Electronic calculating machines)

KRUTIKOVA, V.Ye., kand.tekhn.nauk; MARALIN, V.G., inzh.; SIN'KOV, V.M.
kand.tekhn.nauk

Effect of errors in determining the relative increments of fuel
overconsumption. Elek.sta. 31 no.2:34-37 F '60.
(MIRA 13:5)

(Electric power plants)

SIN'KOV, V.M., kand.tekhn.nauk; OKSANICH, M.A., inzh.; PANCHENKO, G.F., inzh.

Measuring relative increases of fuel consumption and efficiency of
boiler units. Avtom.1 prib. no.2:113-187 '61. (MIRA 14:12)
(Boilers)

SIN'KOV, V.M., kand.tekhn.nauk; ZAKIDAL'SKIY, A.I., inzh.; ZASENKO, V.I.,
inzh.; SITNIKOVA, I.A., inzh.; FOL'KMAN, K.Yu., inzh.; KHOLMSKIY,
D.V., inzh.

Computers for calculating the most favorable distribution of active
loads in composite electric power systems. Avtom.i prib. no.2:
126-138 '61. (MIRA 14:12)
(Electronic analog computers) (Electric power distribution)

SIN'KOV, V.M., kand. tekhn. nauk; FEDOTOV, L.V., inzh.; ZEMIK, A.F., inzh.

First results of the industrial tests of a computer system for determining the efficiency of boilers fired by pulverized coal. Energ. i elektrotekh. prom. no.3:12-17 J1-S '64.

(MIRA 17:11)

L 29536-65 EWT(d)/EED-2/EWP(1) Pg-L/Pk-L/Pq-L/Pq-L IJP(c) GG/BB

ACCESSION NR: AP5003068

S/0105/65/000/001/0001/0007

AUTHOR: Sin'kov, V. M. (Candidate of technical sciences); Bogoslovskiy, A. V.
(Candidate of technical sciences); Fedotov, L. V. (Engineer); Fol'kman, K. Yu.
(Engineer); Tsiptsyura, R. D. (Engineer)

TITLE: Computers in a complex-automated power system

SOURCE: Elektrichestvo, no. 1, 1965, 1-7

TOPIC TAGS: power system, automation, electric power production, computer

ABSTRACT: A general discussion is presented of the possible role of computers in maintaining economy regimes at manual-controlled partially-automated power plants. The reducing of fuel consumption by 1% may save 150,000-200,000 rubles per 1,000 Mw installed capacity. The optimization of load distribution among power plants and of electrical and thermal load distribution among power-producing units may bring about a fuel saving of a few percentages which would quickly (from 3 months to 1.5 years) pay the cost of the computers making such an optimization possible. A combined system of frequency-and-active-power control

Card 1/2

L 29536-65

ACCESSION NR: AP5003968

is being developed by the Kiev Institute of Automation and Energoset 'proyekt (Moscow); the power-system operation will be based on predictive calculations for the system and automatic operating control at individual plants. The problems arising with power exchanges over low-capacity interconnection ties and d-c interconnections are noted. A sketch showing the recommended disposition of computers in a complicated power system is presented. An IPK-2 special computing device for determining fuel-consumption relative increments is mentioned. [No actual installation of computers or automatic-operation devices in Soviet power systems is cited. Abstracter's note]. Orig. art. has: 4 figures.

ASSOCIATION: Kievskiy institut avtomatiki (Kiev Institute of Automation)

SUBMITTED: 20Feb64

ENCL: 00

SUB CODE: DP, EE

NO REF SOV: 009

OTHER: 000

Card 2/2

SIN'KOV, V.M., kand. tekhn. nauk

Conditions of optimum load distribution between power plant units
taking into account the effect of steampipes. Energ. i elektrotekn.
prom. no.1:8-9 Ja-Mr '65. (MIRA 18:5)

OSIN, V.M., kand. tekhn. nauk; BUDAGOVSKIY, A.V., kand. tekhn. nauk;
FEDOTOV, I.V., inzh.; FOMIN, K.Yu., inzh.; TSIFTSYURA, R.D., inzh.

Computer systems in the overall automation of power plants.
Elektrichestvo no.1:1-7 Ja '65. (MIRA 18:7)

1. Kiyevskiy institut avtomatiki.

SIN'KOV, V.M., kand.tekhn.nauk; FEDOTOV, L.V., inzh.; TSIPTSYURA, R.D., inzh.

Control systems of automated thermal electric power plants.
Energ. i elektrotekh. prom. no.2:3-6 Ap-Je '65.

(MIRA 18:8)

SIN'KOV, V.M., kand.tekhn.nauk, dotsent (Kiyev)

Method for calculating the most efficient operating conditions
of a thermal electric power plant taking into account pressure
and steam temperature changes. Elektrichestvo no.12:63-66 D
'65. (MIRA 18:12)

SIN'KOV, V.M., kand. tekhn. nauk; FEDOTOV, L.V., kand. tekhn. nauk;
YANIK, A.F., inzh.

Principles of the construction of a system for calculating
load distribution efficiency between boiler units. Energ.
i elektrotekh. prom. no.4:8-10 O-D '65.

(MIRA 19:1)

L 4096-66 EWT(1)/EWA(h) GG

ACC NR: AP5024994

SOURCE CODE: UR/0286/65/000/016/0058/0058

INVENTOR: Sestroretskiy, B. V.; Yakuben', Li M.; Sin'kov, Yu. A.

ORG: none

TITLE: Shf semiconductor switching element²⁵ Class 21, No. 173849

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 58

TOPIC TAGS: electronic switch, switching circuit, superhigh frequency

ABSTRACT: This Author Certificate introduces an shf semiconductor switching element (see Fig. 1) with three leads. The middle lead serves to supply signals. In order

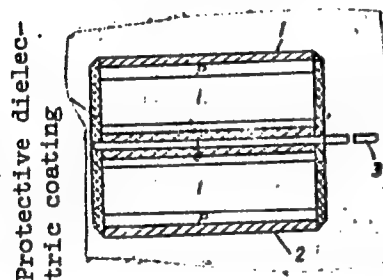


Fig. 1. Shf semiconductor switching element

1 and 2 - Metal contacts with P-windings; 3 - middle lead.

UDC: 621.382.233:
621.372.837

Card 1/2

L 4096-66

ACC NR: AP5024994

to increase the range of operation at pulses of up to 10^4 w, the element is built in the form of a nipin structure. Orig. art. has: 1 figure. [JR]

SUB CODE: EC/ SUBM DATE: 04Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: 4/29

BVK.

Card 2/2

BOBROV, Ye.G.; BONDARTSEV, A.S.; BORISOVA, A.G.; VASIL'KOV, B.P.;
VASIL'CHENKO, I.T.; GOLUBKOVA, V.F.; GRUDZINSKAYA, I.A.;
YEGOROVA, T.V.; ZINOVA, A.D.; IVANINA, L.I.; LEONOVA, T.G.;
MATSENKO, A.Ye.; PIDOTTI, O.I.; POBEDIMOVA, Ye.G.; POLYAKOV,
P.P.; POYARKOVA, A.I.; SAVICH, V.P.; SIN'KOVA, G.M.; SMIRNOVA,
Z.N.; SMOL'YANINOVA, L.A.; FEDOROV, A.I.A.; KHARADZE, A.L.;
TSVELEV, N.N.; SHISHKIN, B.K. [deceased]; PEN'KOVA, G.A., red.;
BARANOVA, L.G., tekhn. red.; FRIDMAN, Z.L., tekhn. red.

[Botanical atlas] Botanicheskii atlas. Moskva, Sel'khozizdat,
1963. 501 p. (MIRA 16:12)

1. Chlen-korrespondent AN SSSR (for Shishkin).
(Botany—Atlases)

5(1, 3)
AUTHORS:

SOV/153-58-5-19/28
Gul', V. Ye., Faynberg, R. Ya., Mayzel's, M. G.,
Rayevskiy, V. G., Sin'kova, M. I.

TITLE:

I. Physico-Chemical Characteristics of the Wetting Process of
Textile Materials With Solutions of High-Molecular Compounds
(I. Fiziko-khimicheskiye kharakteristiki protsessov smachi-
vaniya tekstil'nykh materialov rastvorami vysokomolekulyarnykh
soyedineniy)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya
tekhnologiya, 1958, Nr 5, pp 114-119 (USSR)

ABSTRACT:

The mechanism of the interactions of the processes mentioned
in the title is of scientific and practical interest. The
application of rubber glues on a textile basis in the production
of gummed tissues can serve as example. As the wetting re-
presents the first elementary interaction process therein, it
can exert essential influence on the characteristics of adhesion.
The dependence of the wetting upon the nature and the structure
of the glues and the textile materials must therefore be studied.
Apparently the value Θ cannot supply any clear characteristic
feature of the adhesion to textiles in the case of glue (just
as with latex, Refs 1, 2). On the other hand, the authors re-

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SOV/153-58-5-19/28

I. Physico-Chemical Characteristics of the Wetting Process of Textile
Materials With Solutions of High-Molecular Compounds

garded it as possible to determine such a characteristic feature by studying the variation kinetics of the angle θ with respect to time. For this purpose they selected the method of the indirect measurement of the external angle θ of the wetting on an enlarged picture of the drop projected unto a screen. It could be proved that 1) the variation character of the curves of the said angle reflects the totality of the processes taking place during the interaction of the glue with the cloth. these processes are the soaking and the evaporation in a room saturated with evaporated solvents (Figs 1, 4) besides these processes in an unsaturated room (Figs 3, 5); 2) It was proved that the residual values of θ increase with the viscosity of the glue, whereas the total velocity of the processes, soaking and deliquescence, decrease. 3) The kinetic parameter τ_{\max} was determined; it is the period of time within which the drop has reached a stable state. This parameter is a criterion of the degree of susceptibility of various textiles to rubber glue (cotton - perkal' B, caprone art. 1516 and 1520, glass cloth

Card 2/3

SOV/153-58-5-19/28

I. Physico-Chemical Characteristics of the Wetting Process of Textile Materials With Solutions of High-Molecular Compounds

ESTBO 11) 4) In spite of the decrease in viscosity η and of the surface tension σ the addition of polar admixtures slows down the decrease of the external angle with time and increases the value of τ_{\max} . 5) The adhesion characteristics of the glue-tissue systems investigated were determined. They are in good correlation with the wetting parameters θ and τ_{\max} . 6) It was found possible to predetermine the interaction character of the glue with the textile base as well as the binding strength of these elements in finished constructions of gummed cloths by means of the degree and the variation character of the parameters θ and τ_{\max} . There are 8 figures, 3 tables, and 6 Soviet references.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii i nauchno issledovatel'skiy institut rezinoy promyshlennosti (Moscow Institute for Fine Chemical Technology and Scientific Research, Institute for Rubber Industry)

SUBMITTED: December 2, 1957
Card 3/3

SIN'KOVA, S. H.

PUZYREV, S.A.; SIN'KOVA, S.H.

Examining wood fiber material with an ultraviolet microscope.
Bum.prom. 29 no.5:12-13 My '54. (MIRA 7:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut bumagi.
(Cellulose--Testing)

PUZYREV, S.A.; ~~SINIKOVA, S.N.~~

Some problems of the theory and practice of paper sizing.
Bum. prom. 31 no.11:8-12 N '56. (MLRA 10:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut tsellyuloznoy
i bumazhnoy promyshlennosti.
(Sizing (Paper))

SIN'KOVA, S.N.; PUZYREV, S.A.

Industrial unit for producing emulsions with the aid of a super-
sonic liquid jet [with summary in English]. Koll. zhur. 19 no.3:
387-389 My-Je '57. (MLRA 10:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut tsellyulozno-
bumazhnoy promyshlennosti, Leningrad.
(Chemical apparatus) (Emulsions) (Jets)

SINKOVEC, B.

Occurrence of zinc and lead ores at Lisina in the vicinity of Srb, region of Lika.

p. 83 (Geoloski Vjesnik) Vol. 10, 1956, Zagreb, Yugoslavia

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